SECRET

11038

NPIC/TSSG/DED-1681-69
24 June 1969

MEMORANDUM FOR: Chief, Imagery Exploitation Group, NPIC

INFORMATION: Chief, Support Services Division, TSSG, NPIC

SUBJECT: Selection of Operators for New High Precision Stereo Comparator

REFERENCE: (a) Executive Director, NPIC Memorandum [redacted] dated 23 May 1969 25X1
(b) Executive Director, NPIC Memorandum dated 21 May 1969

ENCLOSURE: (1) [redacted] Report Number DK-350, December 1968, Titled, "Influence of Optical Field Flatness, Field of View and Reticle Brightness on Floating Dot Reticle Placement" 25X1

1. The Executive Director, NPIC, by reference (a), forwarded an action item sheet on which primary responsibility for various actions were assigned. These actions were based on extracts from reference (b), a summary of the May 1969 visits to various contractor facilities by certain members of the NPIC Staff. Wrap-up of the action items was directed by 1 July 1969. Enclosure (1) is a report of a study generated from the High Precision Stereo Comparator (HPSC) development program being conducted by the [redacted] 25X1 25X1

2. One of the action items included with reference (a) reads, "IEG to prepare proposal on how to select and train operators of HPSC". Paragraph 12 of reference (b) is mentioned, and reads, in part, "They (the operators) should be picked with some care, using whatever findings apply as a result of our [redacted] studies". 25X1

3. To assist the Chief, IEG, in preparing his proposal, the following information, based on one of the [redacted] studies, is submitted. 25X1

4. The results of the study reported on in enclosure (1) were made available immediately to [redacted] and the Chief, IEG/PHD. Of more 25X1

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interest here, however, is the following quotation taken from paragraph 3.3 Subject Selection (page 13) of enclosure (1); "Two candidate subjects were eliminated because of lack of apparent skill in making the floating dot settings, and another was dropped after initial acceptance because his uncorrected myopia interacted with viewing aperture size". From this statement, it may be inferred that there is a certain degree of skill required and that not everyone is capable of making the floating dot settings.

5. Undoubtedly, the personnel being considered for training as operators of the HPSC will have demonstrated a previous capability for making floating dot settings. Even so, it is logical to conclude that there will be varying degrees of proficiency among the candidates. To assure picking the best subjects for training, a simple test would appear to be in order. [redacted] is of the opinion that such a test could be conducted in-house with a minimum expenditure of effort. He would utilize some of the imagery from [redacted] Precise Measurement Study (assuming that it is sufficiently variable in the height dimension), stereo depth tests from the NPIC Visual Acuity Study, and a new stereo test developed by [redacted] to be used on the Microscope Design Criteria investigation.

6. Should a decision be made to pursue this approach, it is suggested that the test be given to a slightly oversize group of possible candidates in order that the required number of best adapted operators may subsequently be chosen. In addition, it is recommended that the test be administered by selected IEG personnel using the test procedures furnished by [redacted] Point Transfer Device presently located in the PHD area would appear to be best suited as the test unit since it incorporates a floating dot mechanism very similar to that being built into the HPSC.

7. While having only limited prior scientific basis, it may be possible to correlate the above test findings with the eye examination data previously collected on all NPIC photographic interpretation/photogrammetric personnel. Such a correlation, if proved effective, would reinforce the operator selection process. In this respect, [redacted] would perform the correlation effort.

8. If you desire the assistance of DED in initiating such a test effort, or other DED support on this subject, please advise by memorandum.

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The TSSG/DED coordinating officer for this project, if undertaken, will be [redacted] 25X1

Chief, Development & Engineering Division
TSSG

Attachment: a/s

Distribution:
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1 - Ch/SSD/TSSG/NPIC
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25X1 NPIC/TSSG/DED/SRB [redacted] (24 JUNE 69) (11038 & 03019)